



# U.S. Hardware Pricing Summary Guide

## October 28, 1997

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# Workstations

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- Low-cost "thin client" network computer
- Zero administration at the desktop
- Runs only 100% pure Java applications
- Write once, run anywhere
- Ease of application distribution across the enterprise
- Enhanced security
- 100-MHz microSPARC-II for workstation-class performance
- 10Base-T for workstation-class bandwidth

### JAVASTATION SYSTEM

The JavaStation is offered with 5 memory configurations and 7 initial Country Kits. All Country Kits contain a North American keyboard with a localized power cord.

### MONITOR OPTIONS

Three monitor choices are available: 14" color, 17" color, and no monitor (headless config.)

### SOFTWARE

*Sun is offering the first versions of the JavaStation Software Environment free of charge. This software contains JavaOS, HotJava Browser and JavaStation boot services and administration tools. The software is be available through the Web (<http://www.sun.com/javastation>). Note that it is necessary to install this software package on a server running Solaris 2.5 in order to run the JavaStations in a network.*

The second version of the JavaStation Software Environment, which will include Sun's extended desktop user environment, HotJava Views, will be available in Q3FY97. The software will be distributed on a CD and through the Web. Pricing to be announced.

### OPTIONS

The only option offered with the JavaStation is an X-option memory upgrade. This option is intended as a post-purchase option and should not be used for initial orders. Ordering memory as part of the system will ensure that the memory arrives preinstalled.

### GENERAL ORDERING NOTES


**Licenses** - The JavaOS and HotJava Browser license come standard with every system.

**Media** - The JavaStation pulls all its software from a local boot server over the network. One copy of JavaStation Software Environment is required per site. This environment requires a Sun server running Solaris 2.5 or a Netra j server in each subnet.

**Memory** - JavaStation has a total of 4 available memory slots. 8MB configuration uses 2 x 4MB SIMMs and 2 slots; 16MB configuration uses 4 x 4MB SIMMs and all 4 slots; 32MB configuration uses 2 x 16MB SIMMs and 2 slots; 40MB configuration uses 2 x 4MB and 2 x 16MB SIMMs and all 4 slots; 64MB configuration uses 4 x 16MB SIMMs and all 4 slots. SIMMs must be added in pairs of equal capacity.

## JavaStation

Part Number	Description	List Price	Discount Category
JJ -8- 01 50	JavaStation, 8MB, U.S. Country Kit Universal Country Kit	\$742	G
JJ -16-01 50	JavaStation, 16MB, U.S. Country Kit Universal Country Kit	\$862	G
JJ -32-01 50	JavaStation, 32MB, U.S. Country Kit Universal Country Kit	\$1,102	G
JJ -40-01 50	JavaStation, 40MB, U.S. Country Kit Universal Country Kit	\$1,222	G
JJ -64-01 50	JavaStation, 64MB, U.S. Country Kit Universal Country Kit	\$1,582	G
<b>MONITORS</b>			
(Systems may be ordered without monitors for customers wishing to use their existing PC monitors)			
X7114A	14" color monitor for JavaStation	\$253	G
X7104A	17" color monitor for JavaStation	\$703	G
<b>MEMORY UPGRADES</b>			
X7011A	8MB memory upgrade for JavaStation	\$120	A
X7012A	32MB memory upgrade for JavaStation	\$375	A

	 <p><b>SPARCstation 5</b></p>
<b>Packaging</b>	Desktop
<b>Performance</b> SPECint95 SPECfp95 SPECbase_int95 SPECbase_fp95 AIM 3 LADDIS	Model 170 3.32 2.91 3.19 2.68 N/A N/A
<b>Performance</b> Architecture Clock rate Cache on-chip Cache external No. of Processors	TurboSPARC (microSPARC compatible) 170MHz 16KB I-cache, 16KB D-cache 512KB 1
<b>System Memory</b> Standard Maximum Memory type Bandwidth Total memory slots SIMM size	32MB 256MB 60ns JEDEC parity 64 bits 8 32MB
<b>Disk Storage</b> SCSI bandwidth Standard Maximum internal Maximum external	10M/sec. 2.1GB 4.2GB 118GB
<b>I/O Architecture</b> SBus slots Graphics (UPA Slots) Serial ports Parallel ports Audio Speaker	3 (32-bit, 22MHz) No 2 (fully synchronous) 1 (cable required) 16-bit Internal
<b>Network Ports</b> AUI Ethernet Twisted-pair Ethernet ISDN BRI	Yes (with opt. adapter cable) Yes No
<b>Supported Graphics Options</b>	S24, TurboGX, TurboGX Plus
<b>Solaris License</b>	Solaris 2.3 Ed. II or later Solaris 1.1.1 ver. B



## SPARCstation 5 - Model 170

### Model 170: One 170MHz TurboSPARC

Part Number	Description	List Price	Discount Category
S5RX1-170-32-P17	17" entry color monitor, TurboGX, 32MB, 2.1GB internal fast SCSI-2 disk	\$4,695	A
S5F24-170-32-P17	17" color monitor, S24 graphics, 32MB, 2.1GB internal fast SCSI-2 disk	\$5,195	A
S5FX1-170-32-P17	17" color monitor, TurboGX, 32MB, 2.1GB internal fast SCSI-2 disk	\$5,195	A
S5FX4-170-32-P17	17" color monitor, TurboGXplus, 32MB, 2.1GB internal fast SCSI-2 disk	\$6,195	A
S5T24-170-32-P17	20" color monitor, S24 graphics, 32MB, 2.1GB internal fast SCSI-2 disk	\$5,895	A
S5TX1-170-32-P17	20" color monitor, TurboGX, 32MB, 2.1GB internal fast SCSI-2 disk	\$5,895	A
S5TX4-170-32-P17	20" color monitor, TurboGXplus, 32MB, 2.1GB internal fast SCSI-2 disk	\$6,895	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
SLC, ELC, IPC, SPARCstation 1/1+, Classic	<b>UGFS-S5RX170-P17</b> Full system upgrade to SPARCstation 5 Model 170 with modified system enclosure, 17" LC color monitor, TurboGX, 32MB, and 2.1GB internal fast SCSI-2 disk.	\$4,495	A*
SLC, ELC, IPC, SPARCstation 1/1+, Classic	<b>UGFS-S5FX170-P17</b> Full system upgrade to SPARCstation 5 Model 170 with modified system enclosure, 17" color monitor, TurboGX, 32MB, and 2.1GB internal fast SCSI-2 disk.	\$4,745	A*
SLC, ELC, IPC, SPARCstation 1/1+, Classic	<b>UGFS-S5TX170-P17</b> Full system upgrade to SPARCstation 5 Model 170 with modified system enclosure, 20" color monitor, TurboGX, 32MB, and 2.1GB internal fast SCSI-2 disk.	\$5,445	A*
IPX, LX, SPARCstation 2, SPARCstation 10	<b>UG4/75-S5170-P17</b> Chassis upgrade to SPARCstation 5 Model 170 with modified system enclosure, TurboGX frame buffer, 32MB, and 2.1GB internal fast SCSI-2 disk.	\$4,095	A*
IPX, LX, SPARCstation 2, SPARCstation 10	<b>UGS2-S5TX4170-P17</b> Chassis upgrade to SPARCstation 5 Model 170 with modified system enclosure, TurboGXplus frame buffer, 32MB, and 2.1GB internal fast SCSI-2 disk.	\$4,695	A*
SPARCstation 4, SPARCstation 5	<b>UG-S4-S5-TX1-170</b> Chassis upgrade to SPARCstation 5 Model 170 with modified system enclosure, TurboGX frame buffer, no memory, no disk.	\$2,795	A*
<b>BOARD UPGRADE</b>			
SPARCstation 5 70, 80, or 110MHz System Board	<b>UGS5-70/85/110-170</b> Upgrade to SPARCstation 5 170MHz System Board with CPU.	\$995	A*

### NOTES:

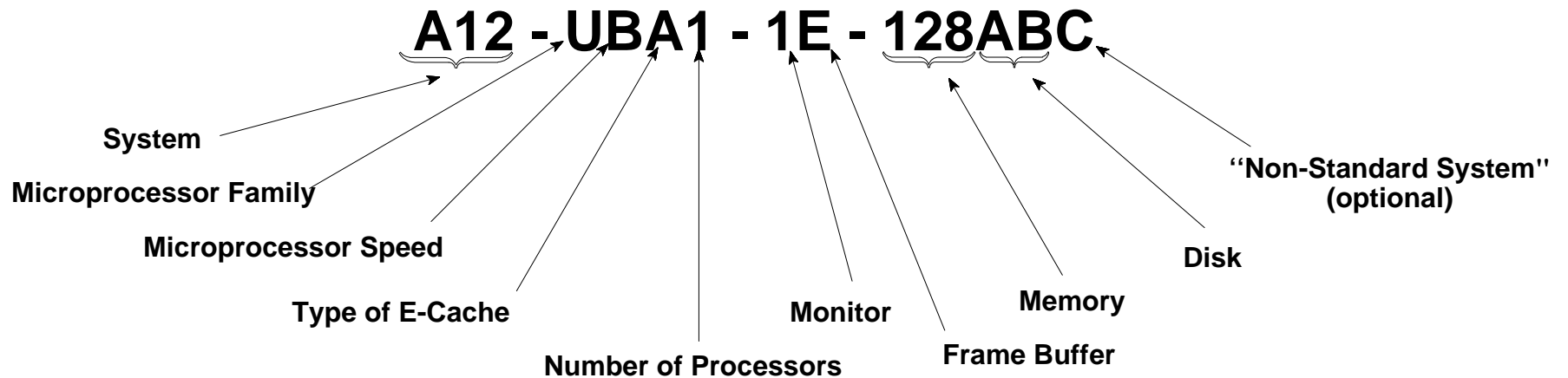
- Requires Solaris 2.3, Hardware: 5/94 or higher. Solaris 1.1.1 version B is available for TurboGX and TurboGXplus models.
- All system orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section of the End User Price Book.
- For AUI Ethernet support, order the AUI adapter cable (X981A).
- The Solaris Internet Access PlusPack (IAPP-2.0-P) can be ordered at no charge with initial Workstation order.

### NOTES for Upgrades:

- Requires Solaris 1.1.1 Version B or later, Solaris 1.x release, or Solaris 2.3. Hardware: 5/94 or later
- Additional memory, internal or external storage options must be ordered as separate line items.

\* Maximum discount may apply.

## Ultra Systems Part Numbering



### System

A11 = Ultra 1 Model 140/170  
 A12 = Ultra 1 Model 140E/170E/200E  
 A14 = Ultra 2  
 A16 = Ultra 30  
 A18 = Ultra 4000  
 A25 = Ultra 450

### Microprocessor Family

U = UltraSPARC

### Microprocessor Speed

B = UltraSPARC 167 MHz  
 C = UltraSPARC 200 MHz  
 D = UltraSPARC 250 MHz  
 E = UltraSPARC 300 MHz

### E-Cache Size

A = 512KB  
 B = 1 MB  
 C = 2 MB  
 D = 4 MB

### Monitor

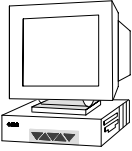
1 = 20" color  
 2 = 17" color  
 7 = 24" wide screen color  
 9 = Headless

### Frame Buffer

A = TGX  
 E = Creator  
 F = Creator 3D  
 G = (reserved)  
 H = Creator 3D Series 2  
 N = No Frame Buffer  
 S = Server

### Disk

AB = 2.1GB  
 AC = 4.2GB  
 CD = 4.2GB + SunCD 12  
 CE = 2.1GB + SunCD 12  
 EE = 2 x 2.1GB + SunCD 12  
 ND = SunCD 12  
 NN = Diskless

	<b>Ultra 1 Model 170</b>	<b>Ultra 1 Model 170E</b>	<b>Ultra 1 Model 200E</b>
<b>Packaging</b>	Desktop	Desktop	Desktop
<b>Performance</b> SPECint95 SPECfp95 SPECbase_int95 SPECbase_fp95 AIM 3 LADDIS	Model 170 6.26 9.06 5.26 8.45 1305 1812	Model 170E 6.26 9.06 5.26 8.45 1450 2102	Model 200E 7.44 10.40 6.62 9.79 N/A N/A
<b>Performance</b> Architecture Clock rate Cache on-chip Cache external No. of Processors	UltraSPARC-I 167MHz 16KB I-cache, 16KB D-cache 512KB 1	UltraSPARC-I 167MHz 16KB I-cache, 16KB D-cache 512KB 1	UltraSPARC-I 200MHz 16KB I-cache, 16KB D-cache 512KB 1
<b>System Memory</b> Standard Maximum Memory type Bandwidth Total memory slots SIMM size	64MB 1GB ECC 288 bits 8 16, 32, 64, 128MB (pairs)	64MB 1GB ECC 288 bits 8 16, 32, 64, 128MB (pairs)	64MB 1GB ECC 288 bits 8 16, 32, 64, 128MB (pairs)
<b>Disk Storage</b> SCSI bandwidth Standard Maximum internal Maximum external	10MB/sec. (8-bit fast) 2.1GB 8.4GB 147GB	20MB/sec. (16-bit fast) 2.1GB 8.4GB 147GB	20MB/sec. (16-bit fast/wide) 2.1GB 8.4GB 147GB
<b>I/O Architecture</b> SBus slots Graphics (UPA Slots) Serial ports Parallel ports Audio Speaker	3 (32/64-bit, 25MHz) No 2 1 16-bit Internal	2 (32/64-bit, 25MHz) 1 (83MHz) 2 1 16-bit Internal	2 (32/64-bit, 25MHz) 1 (83MHz) 2 1 16-bit Internal
<b>Network Ports</b> AUI Ethernet Twisted-pair Ethernet ISDN BRI	Yes Yes (10 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional
<b>Supported Graphics Options</b>	TurboGX	Creator, Creator3D	Creator, Creator3D
<b>Solaris License</b>	Solaris 2.5.1 or later	Solaris 2.5.1 Hardware: 1/96 or later	Solaris 2.5.1 or later

## Ultra 1 - Model 170

**Model 170: One 167 MHz UltraSPARC-I, 512KB E-cache**

Part Number	Description	List Price	Discount Category
A11-UBA1-13A-T64AB	17" entry color monitor, TurboGX, 64MB, 2.1GB 5400 RPM internal fast SCSI-2 disk	\$7,995	A
A11-UBA1-2A-T64AB	17" color monitor, TurboGX, 64MB, 2.1GB 5400 RPM internal fast SCSI-2 disk	\$8,495	A
A11-UBA1-1A-T64AB	20" color monitor, TurboGX, 64MB, 2.1GB 5400 RPM internal fast SCSI-2 disk	\$9,195	A
A11-UBA1P-1A-T64AB	20" color monitor, TurboGX, 64MB, 2.1GB internal fast SCSI-2, w/ bundled SunPC card	\$9,695	A

### Upgrades:

From	Description	List Price	Discount Category
SPARCstation 1 & 1+, SLC, ELC, IPC, Classic	<b>UGFS-UBA1-1A-T64AB</b> Full system upgrade to Ultra 1 Model 170 with 20" color monitor, TGX graphics, 64MB, 2.1GB internal fast SCSI-2 disk	\$8,195	A*
Any SPARC	<b>UGFS-UBA1P1A-T64AB</b> Full system upgrade to Ultra 1 Model 170 with 20" color monitor, TGX graphics, 64MB, 2.1GB internal fast SCSI-2 disk w/ bundled SunPC card	\$8,695	A*
SPARCstation 2, IPX, LX	<b>UGS2-UBA1-9A-T64AB</b> Chassis upgrade to Ultra 1 Model 170 with TGX graphics, 64MB, 2.1GB internal fast SCSI-2 disk	\$6,995	A*
SPARCstation 10	<b>UG10-UBA1-9A-T64AB</b> Chassis upgrade to Ultra 1 Model 170 with TurboGX, 64MB, 2.1GB internal fast SCSI-2 disk	\$5,495	A*
SPARCstation 10	<b>UG10-UBA1P9A-T64AB</b> Chassis upgrade to Ultra 1 Model 170 with TurboGX, 64MB, 2.1GB internal fast SCSI-2 disk, bundled SunPC card	\$5,995	A*
SPARCstation 20	<b>UG20-UBA1-9N-T00NN</b> Chassis upgrade to Ultra 1 Model 170 with no graphics, memory, or disk	\$4,495	A*

**NOTES:** All Ultra 1 Model 170 configurations and upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Order a Solaris Internet Access PlusPack at no charge with initial workstation order.

\* Maximum discount may apply.

## Ultra 1 - Model 170E

*Model 170E: One 167 MHz UltraSPARC-I, 512KB E-cache*

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A12-UBA1-1E-128AB	20" color monitor, Creator, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk	\$10,995	A
A12-UBA1P-1E-128AB	20" color monitor, Creator, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk, bundled SunPC card	\$11,495	A
<b>CREATOR3D</b>			
A12-UBA1-1F-128AB	20" color monitor, Creator3D, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk	\$11,995	A
A12-UBA1P-1F-128AB	20" color monitor, Creator3D, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk, bundled SunPC card	\$12,495	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
SPARCstation 1/1+, IPC, SLC, ELC, Classic	<b>UGFS-UBA-1E-128AB</b> Full system upgrade to Ultra 1 Model 170E with 20" color monitor, Creator, 128MB, 2.1GB internal fast SCSI-2 disk	\$8,850	A*
Any SPARC	<b>UGFS-UBAP-1E-128AB</b> Full system upgrade to Ultra 1 Model 170E with 20" color monitor, Creator, 128MB, 2.1GB internal fast SCSI-2 disk, bundled SunPC card	\$9,350	A*
SPARCstation 2, IPX, LX	<b>UGSS2UBA-9E-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator, 128MB, 2.1GB internal fast SCSI-2 disk	\$7,350	A*
SPARCstation 4, 5	<b>UGS4/SUBA9E-128NN</b> Chassis upgrade to Ultra 1 Model 170E with Creator, 128MB, no disk	\$5,995	A*
SPARCstation 10	<b>UGS10UBA-9E-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator, 128MB, 2.1GB internal fast SCSI-2 disk	\$6,795	A*
SPARCstation 10	<b>UGS10UBAP-9E-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator, 128MB, 2.1GB internal fast SCSI-2 disk, bundled SunPC card	\$7,295	A*
SPARCstation 20	<b>UGS20UBA-9E-000NN</b> Chassis upgrade to Ultra 1 Model 170E with Creator graphics, no memory, no disk	\$4,995	A*
<b>CREATOR3D UPGRADES</b>			
SPARCstation 1/1+, IPC, Classic	<b>UGFS-UBA-1F-128AB</b> Full system upgrade to Ultra 1 Model 170E with 20" color monitor, Creator3D, 128MB, 2.1GB internal fast SCSI-2 disk	\$9,850	A*
Any SPARC	<b>UGFS-UBAP-1F-128AB</b> Full system upgrade to Ultra 1 Model 170E with 20" color monitor, Creator3D, 128MB, 2.1GB internal fast SCSI-2 disk, bundled SunPC card	\$10,350	A*
SPARCstation 2, IPX, LX	<b>UGSS2UBA-9F-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator3D, 128MB, 2.1GB internal fast SCSI-2 disk	\$8,350	A*
SPARCstation 10	<b>UGS10UBA-9F-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator3D, 128MB, 2.1GB internal fast SCSI-2 disk	\$7,795	A*
SPARCstation 10	<b>UGS10UBAP-9F-128AB</b> Chassis upgrade to Ultra 1 Model 170E with Creator3D, 128MB, 2.1GB internal fast SCSI-2 disk, bundled SunPC card	\$8,295	A*
SPARCstation 20	<b>UGS20UBA-9F-000NN</b> Chassis upgrade to Ultra 1 Model 170E with Creator3D graphics, no memory, no disk	\$5,995	A*

**NOTES:** All Ultra 1 Model 170E configurations and upgrades require Solaris 2.5.1 or later Solaris 2.x release; Hardware: 1/96 or higher.

- The Ultra 1 Model 170E is equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- The Ultra 1 Model 170E has a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Options section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

\* Maximum discount may apply.

Ultra 1 - Model 200E
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**Model 200E: One 200 MHz UltraSPARC-I, 512KB E-cache**

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A12-UCA1-1E-128AB	Creator, 20" color monitor, 128MB (2 x 64MB SIMMs), 2.1GB 7200 RPM internal fast SCSI-2 disk	\$16,495	A
A12-UCA1-1E-512AB	Creator, 20" color monitor, 512MB (4 x 128MB SIMMs), 2.1GB 7200 RPM internal fast SCSI-2 disk	\$26,495	A
<b>CREATOR3D</b>			
A12-UCA1-1F-128AB	Creator 3D, 20" color monitor, 128MB (2 x 64MB SIMMs), 2.1GB 7200 RPM internal fast SCSI-2 disk	\$17,495	A
A12-UCA1-1F-512AB	Creator 3D, 20" color monitor, 512MB (4 x 128MB SIMMs), 2.1GB 7200 RPM internal fast SCSI-2 disk	\$27,495	A

**Upgrades:**

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
SPARCstation 1/1+, IPC, SLC, ELC, Classic	<b>UGFS-12UCA11E128AB</b> Full system upgrade to Ultra 1 Model 200E with Creator graphics, 20" color monitor, 128MB, 2.1GB internal fast SCSI-2 disk	\$14,350	A*
SPARCstation 2, IPX, LX	<b>UGS2-12UCA19E128AB</b> Chassis upgrade to Ultra 1 Model 200E with Creator graphics, 128MB, 2.1GB internal fast SCSI-2 disk	\$12,850	A*
SPARCstation 4, 5	<b>UGS5-12UCA19E128NN</b> Chassis upgrade to Ultra 1 Model 200E with Creator graphics, 128MB, no disk	\$9,800	A*
SPARCstation 10	<b>UG10-12UCA19E128AB</b> Chassis upgrade to Ultra 1 Model 200E with Creator graphics, 128MB, 2.1GB internal fast SCSI-2 disk	\$10,650	A*
SPARCstation 20	<b>UG20-12UCA19E000NN</b> Chassis upgrade to Ultra 1 Model 200E with Creator graphics, no memory, no disk	\$8,800	A*
<b>CREATOR3D UPGRADES</b>			
SPARCstation 1/1+, IPC, SLC, ELC, Classic	<b>UGFS-12UCA11F128AB</b> Full system upgrade to Ultra 1 Model 200E with Creator3D graphics, 20" color monitor, 128MB, 2.1GB internal fast SCSI-2 disk	\$15,350	A*
SPARCstation 2, IPX, LX	<b>UGS2-12UCA19F128AB</b> Chassis upgrade to Ultra 1 Model 200E with Creator3D graphics, 128MB, 2.1GB internal fast SCSI-2 disk	\$13,850	A*
SPARCstation 10	<b>UG10-12UCA19F128AB</b> Chassis upgrade to Ultra 1 Model 200E with Creator3D graphics, 128MB, 2.1GB internal fast SCSI-2 disk	\$11,650	A*
SPARCstation 10	<b>UG10-12UCA19F512AB</b> Chassis upgrade to Ultra 1 Model 200E with Creator3D graphics, 512MB, 2.1GB internal fast SCSI-2 disk	\$21,650	A*
SPARCstation 20	<b>UG20-12UCA19F000NN</b> Chassis upgrade to Ultra 1 Model 200E with Creator3D graphics, no memory, no disk	\$9,800	A*
<b>MODULE &amp; SYSTEM BOARD UPGRADE</b>			
Ultra 1 - 140/170 system board	<b>UG-U11-U12-200-SFB</b> Board upgrade to Ultra 1 Model 200E CPU board and Creator frame buffer.	\$10,995	A*

**NOTES:** All Ultra 1 Model 170 configurations and upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

\* Maximum discount may apply.